ATENT COOPERATION TF TY

To:

From the	INTERNATIONAL	BUREAU
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
FTATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 15 May 2001 (15.05.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office		
International application No. PCT/GB00/03234	Applicant's or agent's file reference MRH/P15693WO		
International filing date (day/month/year) 21 August 2000 (21.08.00)	Priority date (day/month/year) 19 August 1999 (19.08.99)		
Applicant			
JEAPES, A., J. et al			

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	14 March 2001 (14.03.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was was was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Olivia TEFY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

TENT COOPERATION TRETTY

	From the INTERNATIONAL BUREAU			
PCT	То:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 04 December 2001 (04.12.01)	HARRISON GODDARD FOOTE Belgrave Hall Belgrave Street Leeds LS2 8DD ROYAUME-UNI			
Applicant's or agent's file reference				
MRH/P15693WO	IMPORTANT NOTIFICATION			
International application No. PCT/GB00/03234	International filing date (day/month/year) 21 August 2000 (21.08.00)			
The following indications appeared on record concerning: the applicant the inventor				
Name and Address HARRISON GODDARD FOOTE Tower House Merrion Way Leeds LS2 8PA United Kingdom	State of Nationality Telephone No. +44 113 290 1400 Facsimile No. +44 113 244 2829 Teleprinter No.			
The International Bureau hereby notifies the applicant that the the person				
Name and Address HARRISON GODDARD FOOTE Belgrave Hall Belgrave Street Leeds LS2 8DD United Kingdom	State of Nationality Telephone No. +44 113 233 0100 Facsimile No. +44 113 233 0101 Teleprinter No.			
3. Further observations, if necessary:				
4. A copy of this notification has been sent to: X the receiving Office the International Searching Authority X the international Preliminary Examining Authority	the designated Offices concerned X the elected Offices concerned other:			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Dominique DELMAS Telephone No.: (41-22) 338.83.38			



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. International filling date (<i>day-monthiyear</i>) (Earliest) Priority Date (<i>day-monthiyear</i>)	Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
Applicant BRITISH NUCLEAR FUELS PLC et al. This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 14.4 copy is being fransmitted to the international Searching Authority and is transmitted to the applicant according to Article 14.4 copy is being fransmitted to the international Searching Authority and is transmitted to the applicant international Search Report consists of a total of	MRH/P15693WO	MMI/ 13093W0							
Applicant BRITISH NUCLEAR FUELS PLC et a). This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 12. A copy is being fransmitted to the international Sureau. This international Search Report consists of a total of	International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)						
BRITISH NUCLEAR FUELS PLC et a1. This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of 2	PCT/GB 00/03234	21/08/2000	19/08/1999						
This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of 2	Applicant								
This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of 2									
This international Search Report consists of a total of	BRITISH NUCLEAR FUELS PLC	et al.							
Basis of the report	according to Article 18. A copy is being tra	insmitted to the International Bureau.	ority and is transmitted to the applicant						
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filled, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filled together with the international application in computer readable form furnished subsequently to this Authority in written form. turnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filled has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. With regard to the title, X			report.						
language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form turnished subsequently to this Authority in written form. turnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Unity of invention is lacking (see Box II). Unity of invention is lacking (see Box II). With regard to the title, X	Basis of the report								
Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Certain claims were found unsearchable (See Box I). Unity of invention is lacking (see Box II). 4. With regard to the title, X the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. because the applicant failed to suggest a figure.			is of the international application in the						
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furnished subsequently to this Authority in written form. turnished subsequently to this Authority in computer readble form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Certain claims were found unsearchable (See Box I). Unity of invention is lacking (see Box II). With regard to the title,									
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furnished 2.	international application as	s filed has been furnished.							
3. Unity of invention is lacking (see Box II). 4. With regard to the title, X the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, X the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. None of the figures. because the applicant failed to suggest a figure.		rmation recorded in computer readable form is	identical to the written sequence listing has been						
4. With regard to the title, X the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, X the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. None of the figures. because the applicant failed to suggest a figure.	2. Certain claims were four	nd unsearchable (See Box I).							
the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, X the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. None of the figures.	3. Unity of invention is lack	king (see Box II).							
the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, X the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. None of the figures.	4. With regard to the title								
the text has been established by this Authority to read as follows: 5. With regard to the abstract, The text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. None of the figures. because the applicant failed to suggest a figure.		hmitted by the applicant							
5. With regard to the abstract, X the text is approved as submitted by the applicant, the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. because the applicant failed to suggest a figure.		, , , ,							
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within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. because the applicant failed to suggest a figure.	X the text is approved as sul	omitted by the applicant.							
as suggested by the applicant. Decause the applicant failed to suggest a figure. None of the figures.									
because the applicant failed to suggest a figure.	6. The figure of the drawings to be publi	shed with the abstract is Figure No.							
	as suggested by the applic	cant.	None of the figures.						
because this figure better characterizes the invention.	because the applicant faile	ed to suggest a figure.							
	because this figure better	characterizes the invention.							

INTERNATIONAL SEARCH REPORT

International Application No

		//GB 00	/03234			
	A. CLASSIFICATION OF SUBJECT MAY IPC 7 G21C19/48					
	o International Patent Classification (IPC) or to both national classific	ation and IPC				
	SEARCHED ocumentation searched (classification system followed by classification)	on symbols)				
IPC 7	G21C					
Documentat	ion searched other than minimum documentation to the extent that s	such documents are included in the fields so	earched			
	ata base consulted during the international search (name of data ba	se and, where practical, search terms used	()			
EPO-In	ternal, WPI Data, PAJ					
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No			
P,A	WO 99 41752 A (BRITISH NUCLEAR FL;PITNER WILLIAM ROBERT (GB); ROOM 19 August 1999 (1999-08-19) the whole document	1				
Α	WO 99 14160 A (BRITISH NUCLEAR FU ;PITNER WILLIAM ROBERT (GB); FIEL 25 March 1999 (1999-03-25) the whole document 		1			
Furth	er documents are listed in the continuation of box C	X Patent family members are listed	in annex			
° Special cat	egories of cited documents	TI later decument published after the inte	rnotional filing data			
conside	or the defining the general state of the art which is not ered to be of particular relevance locument but published on or after the international	'T' later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention	the application but eory underlying the			
filing da	ate	"X" document of particular relevance; the c cannot be considered novel or cannot involve an invention stan when the do-	be considered to			
IL document which may throw doubts on priority: claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y* document of particular relevance; the claimed invention cannot be considered to involve an invention as the wine the considered to involve an invention."						
Citation or other special reason (as specified) Of document referring to an oral disclosure, use, exhibition or other means anot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled						
'P' document published prior to the international filing date but later than the priority date claimed '8' document member of the same patent family						
Date of the a	actual completion of the international search	Date of mailing of the international sea	irch report			
17	7 July 2001	24/07/2001				
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer				
	NL - 2280 HV Rijswijk Tel. (+31–70) 340 - 2040, Tx. 31 651 epo nl. Fax: (+31–70) 340 - 3016	Brothier, J-A				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

T/GB 00/03234

Patent document cited in search report		Publication date		atent family member(s)	Publication date
WO 9941752	Α	19-08-1999	AU CN EP	2526799 A 1290397 T 1055240 A	30-08-1999 04-04-2001 29-11-2000
WO 9914160	Α	25-03-1999	C N EP	1269767 T 1019322 A	11-10-2000 19-07-2000

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

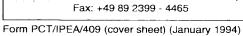
(PCT Article 36 and Rule 70)

Applicant's or	agent's file reference					
AJC/P1569	FOR FURTHER ACTI	ON		cation of Transmittal of International y Examination Report (Form PCT/IPEA/416)		
International application No. International filing date			/month	/year)	Priority date (day/month/year)	
PCT/GB00	/03234	21/08/2000			19/08/1999	
International Patent Classification (IPC) or national classification and IPC G21F9/00						
Applicant						
BRITISH N	IUCLEAR FUELS PLC et	al.				
	ernational preliminary exami ransmitted to the applicant a		pared	by this Inte	ernational Preliminary Examining Authority	
2. This RE	PORT consists of a total of	5 sheets, including this co	ver sh	neet.		
bee (see	•	is for this report and/or she of the Administrative Ins	ets c	ontaining re	n, claims and/or drawings which have ectifications made before this Authority ne PCT).	
3. This rep	ort contains indications relat	ting to the following items:				
1	Basis of the report					
Ш	☐ Priority					
Ш	 Non-establishment of or 	pinion with regard to novel	y, inve	entive step	and industrial applicability	
IV	\square Lack of unity of inventio	n				
٧		der Article 35(2) with regains suporting such stateme		ovelty, inve	entive step or industrial applicability;	
VI	Certain documents cite	d				
VII	\square Certain defects in the in	ternational application				
VIII	☑ Certain observations on	the international application	on			
Date of submis	ssion of the demand	Da	te of c	ompletion of	this report	
14/03/2001		22	22.11.2001			

Authorized officer

Telephone No. +49 89 2399 2229

Ludi, M



Tel. +49 89 2399 - 0 Tx: 523656 epmu d

European Patent Office D-80298 Munich

Name and mailing address of the international

preliminary examining authority:



International application No. PCT/GB00/03234

I. Basis of the report

1.	the and	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						
	1-4		as originally file	d				
	Cla	ims, No.:						
	1-1	7	as originally file	d				
	18-	21	as received on	1	09/11/2001	with letter of	09/11/2001	
2.		h regard to the lang guage in which the i					ed to this Authority in the nder this item.	
	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a	translation furnis	hed for the purp	oses of the i	nternational searcl	h (under Rule 23.1(b)).	
		the language of pu	iblication of the i	nternational appl	lication (unde	er Rule 48.3(b)).		
		the language of a 55.2 and/or 55.3).	translation furnis	hed for the purpo	oses of inter	national preliminar	y examination (under Rule	
3.		n regard to any nuc rnational preliminar					ional application, the ing:	
		contained in the in	ternational applic	cation in written f	orm.			
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that listing has been full		recorded in com	puter readat	ole form is identica	I to the written sequence	
4.	The	amendments have	resulted in the o	ancellation of:				
		the description,	pages:					
	×	the claims,	Nos.:	22,23				
		the drawings,	sheets:					



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/03234

5. 🗌		nas been established as if (some of) the amendments had not been made, since they have been to go beyond the disclosure as filed (Rule 70.2(c)):
	(Any replace report.)	ement sheet containing such amendments must be referred to under item 1 and annexed to this

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-21

No: Claims

Inventive step (IS)

Yes:

Claims 1-21

No:

Claims

Industrial applicability (IA)

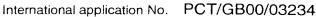
Yes: Claims 1-21

No: Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet



EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document: 1).

D1: WO-A-99 14160

- D1 relates to the treatments of salts previously used in the reprocessing and 2). treatment of nuclear materials. The ionic liquid mixture which comprises the ionic liquid, the metal salts and contaminant fission products, is treated to separate the metal salts from the fission products by using separation procedures such as salting out, precipitation methods, ions exchange or electrochemical separation.
- The present invention relates to processes for treating spent ionic liquid, the latter 3). have been used in the reprocessing of nuclear fuels. In these processes the ionic liquid is heated.

The subject-matter of the present application is therefore novel since it is not disclosed in D1, article 33(2) PCT.

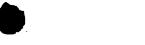
The problem to be solved by the present invention may be regarded as the provision of a method for treating a spent ionic liquid comprising an ionic liquid and contaminants.

The solution to this problem proposed in the present application is considered as involving an inventive step since this solution is neither suggested in D1, nor can be deduced obviously from the combination of the teaching of D1 with the general knowledge of the man skilled in the art, article 33(3) PCT.

Re Item VIII

Certain observations on the international application

Claim 1 does not meet the requirements of article 6 PCT in that the matter for 4). which protection is sought is not clearly defined. The claim attempts to define the subject-matter in terms of the result to be achieved, i.e., heating to form a partial decomposition, which merely amounts to a statement of the underlying problem.





INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/03234

The technical features necessary for achieving this result, i.e., heating under reduced pressure at or below 2 mmHg to a temperature ranging from 200°C to 300°C, should be added. The applicants' attention is drawn to the description on page 2, third paragraph.



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification o	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.			
MRH/P15693WO	ACTION	20) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/GB 00/03234	21/08/2000	19/08/1999			
Applicant					
BRITISH NUCLEAR FUELS PLC	et al.				
This International Search Deport has been	n prepared by this International Searching Auth	pority and is transmitted to the applicant			
according to Article 18. A copy is being tra	ansmitted to the International Bureau.	ionty and is transmitted to the approach			
	2				
This International Search Report consists X	of a total of sheets. a copy of each prior art document cited in this	report.			
it is also accompanied by	a sopy of sach prior art assume in the same				
Basis of the report					
a. With regard to the language, the language in which it was filed, un	international search was carried out on the bar ess otherwise indicated under this item.	sis of the international application in the			
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this			
		sternational application, the international search			
I	onal application in written form.				
filed together with the inte	ernational application in computer readable for	n.			
furnished subsequently to	this Authority in written form.				
furnished subsequently to	this Authority in computer readble form.				
the statement that the sui	bsequently furnished written sequence listing o as filed has been furnished.	loes not go beyond the disclosure in the			
the statement that the inf furnished	ormation recorded in computer readable form i	s identical to the written sequence listing has been			
2. Certain claims were fou	ind unsearchable (See Box I).				
3. Unity of invention is lac	eking (see Box II).				
4. With regard to the title ,	ubmitted by the applicant				
1 🖳 ''	ubmitted by the applicant.				
the text has been established by this Authority to read as follows:					
5. With regard to the abstract ,					
the text has been establic	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may,			
6. The figure of the drawings to be pub					
as suggested by the app		None of the figures.			
because the applicant fa		~			
<u> </u>	r characterizes the invention.				

a. classification of subject matter IPC 7 G21C19/48					
According to	International Patent Classification (IPC) or to both national classific	ation and IPC			
B. FIELDS					
	cumentation searched (classification system followed by classification G21C	on symbols)			
	on searched other than minimum documentation to the extent that s				
	ata base consulted during the international search (name of data baternal, WPI Data, PAJ	se and, where practical, search te	rms used)		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	evant passages	Relevant to claim No.		
P,A	WO 99 41752 A (BRITISH NUCLEAR FUELS PLC; PITNER WILLIAM ROBERT (GB); ROONEY DAVI) 19 August 1999 (1999-08-19) the whole document		1		
А	WO 99 14160 A (BRITISH NUCLEAR F; PITNER WILLIAM ROBERT (GB); FIE 25 March 1999 (1999-03-25) the whole document		1		
Furti	her documents are listed in the continuation of box C.	X Patent family members	are listed in annex.		
*T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *E* earlier document but published on or after the international filing date *L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O' document referring to an oral disclosure, use, exhibition or ofther means *P' document published prior to the international filing date but later than the priority date claimed *S' document member of the same patent family					
Date of the	actual completion of the international search	Date of mailing of the intern	ational search report		
1	7 July 2001	24/07/2001			
Name and mailing address of the ISA European Patent Office P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016 Authorized officer Brothier, J-A					

INTERNATIONAL SEARCH REPORT From a patent family members

ternational Application No

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9941752	A	19-08-1999	AU CN EP	2526799 A 1290397 T 1055240 A	30-08-1999 04-04-2001 29-11-2000
WO 9914160	A	25-03-1999	CN EP	1269767 T 1019322 A	11-10-2000 19-07-2000